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#### **UNIT TERMINAL OBJECTIVE**

3-5 At the completion of this unit, the EMT-Intermediate student will be able to follow an accepted format for the dissemination of patient information in verbal form, either in person or over the radio.

### **COGNITIVE OBJECTIVES**

At the completion of this unit, the EMT-Intermediate student will be able to:

- 3-5.1 Identify the importance of communications when providing EMS. (C-1)
- 3-5.2 Identify the role of verbal, written, and electronic communications in the provision of EMS. (C-1)
- 3-5.3 Describe the phases of communications necessary to complete a typical EMS event. (C-1)
- 3-5.4 Identify the importance of proper terminology when communicating during an EMS event. (C-1)
- 3-5.5 Identify the importance of proper verbal communications during an EMS event. (C-1)
- 3-5.6 List factors that impede effective verbal communications. (C-1)
- 3-5.7 List factors which enhance verbal communications. (C-1)
- 3-5.8 Identify the importance of proper written communications during an EMS event. (C-1)
- 3-5.9 List factors which impede effective written communications. (C-1)
- 3-5.10 List factors which enhance written communications. (C-1)
- 3-5.11 Recognize the legal status of written communications related to an EMS event. (C-1)
- 3-5.12 State the importance of data collection during an EMS event. (C-1)
- 3-5.13 Identify technology used to collect and exchange patient and/ or scene information electronically. (C-1)
- 3-5.14 Recognize the legal status of patient medical information exchanged electronically. (C-1)
- 3-5.15 Identify and differentiate among the following communications systems: (C-3)
  - a. Simplex
  - b. Multiplex
  - c. Duplex
  - d. Trunked
  - e. Digital communications
  - f. Cellular telephone
  - g. Facsimile
  - h. Computer
- 3-5.16 Identify the components of the local dispatch communications system and describe their function and use. (C-1)
- 3-5.17 Describe the functions and responsibilities of the Federal Communications Commission. (C-1)
- 3-5.18 Describe how the Emergency Medical Dispatcher functions as an integral part of the EMS team. (C-1)
- 3-5.19 List appropriate information to be gathered by the Emergency Medical Dispatcher. (C-1)
- 3-5.20 Identify the role of Emergency Medical Dispatch in a typical EMS event. (C-1)
- 3-5.21 Identify the importance of pre-arrival instructions in a typical EMS event. (C-1)
- 3-5.22 Describe the procedure of verbal communication of patient information to the hospital. (C-1)
- 3-5.23 Describe information that should be included in patient assessment information verbally reported to medical direction. (C-1)
- 3-5.24 Diagram a basic model of communications. (C-3)
- 3-5.25 Organize a list of patient assessment information in the correct order for electronic transmission to medical direction according to the format used locally. (C-3)

## **AFFECTIVE OBJECTIVES**

At the end of this unit, the EMT-Intermediate student will be able to:

3-5.26 Show appreciation for proper terminology when describing a patient or patient condition. (A-2)

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**New York State EMT-Intermediate Curriculum** 

adapted from the US: Department of Transportation

EMT-Intermediate: National Standard Curriculum

Patient Assessment: 3

Communications: 5

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## **PSYCHOMOTOR OBJECTIVES**

At the end of this unit, the EMT-Intermediate student will be able to:

- 3-5.27 Demonstrate the ability to use the local dispatch communications system. (P-1)
- 3-5.28 Demonstrate the ability to use a radio. (P-1)
- 3-5.29 Demonstrate the ability to use the biotelemetry equipment used locally. (P-1)

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#### **DECLARATIVE**

- I. General
  - A. Importance of communications when providing EMS
    - 1. EMT-Intermediate functions as one part of a team
    - 2. Need to effectively communicate patient information and scene assessment
    - Medical direction
    - 4. System control and administration
    - Scene control
  - B. Role of verbal, written, and electronic communications in the provision of EMS
    - 1. Communications between party requesting help and the dispatcher
    - 2. Communications between the dispatcher and the EMT-Intermediate
    - 3. Communications between EMT-Intermediate in the field and receiving hospital and/ or medical direction physician (on-line)
    - 4. Communication with receiving hospital personnel (on-arrival)
  - C. Phases of communications necessary to complete a typical EMS event
    - 1. Occurrence
    - 2. Detection
    - 3. Notification and response
    - 4. Treatment and preparation for transport
    - 5. Preparation for next event
      - a. Pre-arrival instructions
      - communication on scene among other providers and with patient
  - D. Diagram of a basic model of communications
    - 1. Idea
    - 2. Encoder
    - Sender
    - 4. Media or channel
    - Receiver
    - 6. Decoder
    - Feedback
  - E. Role of proper terminology when communicating during an EMS event
    - 1. Can shorten transmissions/ narratives
    - 2. Unambiguous
    - 3. Common means of communications with other medical professionals
  - F. Role of proper verbal communications during an EMS event
    - 1. Exchange of system information
    - 2. Exchange of patient information
    - 3. Medical control
    - 4. Professionalism
  - G. Factors that impede effective verbal communications
    - 1. Semantic
    - 2. Technical
  - H. Factors which enhance verbal communications
    - 1. Semantic
    - 2. Technical
  - I. Importance of proper written communications during an EMS event
    - 1. Written record of incident
    - Legal record of incident

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- 3. Professionalism
- 4. Other
  - a. Medical audit
  - b. Quality improvement
  - c. Billing
  - d. Data collection
- J. Factors which impede effective written communications
  - Semantic
  - Technical
- K. Factors which enhance written communications
  - Semantic
  - Technical
- L. Legal status of written communications related to an EMS event
  - 1. Record of incident
  - 2. Part of medical record
  - 3. Confidentiality/ disclosure
- M. Importance of data collection during an EMS event
  - 1. System administration
  - 2. Research
  - 3. Quality management often results in policy change
- N. New technology used to collect and exchange patient and/ or scene information electronically
  - 1. Technology-based
  - 2. Real-time capture of events/ information
  - 3. Integrated with diagnostic technology
  - 4. Reduces dependance on traditional means of documentation, i.e., written
  - 5. Influences role of medical direction
    - a. Provides for advanced notification
    - b. Potential for reduced time to in-hospital diagnosis and therapy
- O. Legal status of patient medical information collected and exchanged electronically
  - 1. Same status as traditional written documentation
  - 2. May not have a "paper record" of incident
- II. Systems
  - A. Methodology used for EMS communication
    - Simplex
      - a. Advantages
        - (1) Allows speaker to get message out without interruption
      - b. Disadvantages
        - (1) Slows process
        - (2) More formal
        - (3) Takes away ability to discuss case
    - 2. Multiplex
      - a. Advantages
        - (1) Either party can interrupt as necessary
        - (2) Facilitates discussion
      - b. Disadvantages
        - (1) Each end has tendency to interrupt the other
      - (2) Voice interferes with data transmission
    - 3. Duplex

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- a. Advantages
  - (1) Either party can interrupt as necessary
  - (2) Facilitates discussion
- b. Disadvantages
  - (1) Each end has tendency to interrupt the other
- 4. Trunked
  - a. Advantages
  - b. Disadvantages
- 5. Digital
  - a. Advantages
  - b. Disadvantages
- 6. Cellular telephone
  - a. Advantages
    - (1) Less formal
    - (2) Promotes discussion
    - (3) Can reduce on-line times
    - (4) Physician can speak directly with patient
  - b. Disadvantages
    - (1) Geography can interfere with signal
    - (2) Cell site may be unavailable
    - (3) External antenna necessary
    - (4) Problems with denied access to cell (PIN numbers unknown or forgotten)
- 7. Facsimile
  - a. Advantages
    - (1) Provides earlier notification
    - (2) Produces another piece of medical documentation
  - b. Disadvantages
    - (1) Must have access to a fax machine (at each end)
- 8. Computer
  - a. Advantages
    - (1) Potential to save retrospective data entry step
    - (2) Can document in real-time
    - (3) Sort on many categories
    - (4) Create multiple reporting formats
    - (5) Provide system data quickly
  - b. Disadvantages
    - (1) Subject to limitation of the computer and the operator
    - (2) Lose flexibility
- B. Components of the local dispatch communications system and function
  - 1. Define 9-1-1 AND E 9-1-1
  - 2. Public safety access point
    - a. Types
    - b. Functions
  - 3. Emergency medical dispatcher
    - a. Functions
  - 4. Pre-arrival instructions
    - a. Purpose
    - b. Types

- 5. System dispatcher
  - a. Functions
- III. Regulation The Federal Communications Commission (FCC)
  - A. Federal agency established to regulate telecommunications in the U.S.
  - B. Functions
    - 1. Licensing
    - Frequency allocation
    - Technical standards
    - 4. Rule making and enforcement
  - C. Responsibilities
- IV. Dispatch
  - A. The functions of an Emergency Medical Dispatcher
    - Call taking
    - 2. Alerting and directing response
    - 3. Monitoring and coordinating communications
    - 4. Pre-arrival instructions
    - 5. Maintaining incident record
  - Appropriate information to be gathered by the Emergency Medical Dispatcher
    - Caller's name and call-back number
      - a. Enhanced 9-1-1 system
    - Address of event
    - 3. Nature of event
    - 4. Specific event information
      - a. Call screening
      - b. Pre-arrival instructions
  - C. Role of emergency medical dispatch in a typical EMS event
    - 1. Part of the EMS system team
    - 2. First contact with the EMS system
    - 3. Coordination of response
    - 4. Coordination of communications
    - 5. Provision of pre-arrival instructions to mitigate event prior to arrival of units
    - 6. Incident data collection
  - D. Importance of pre-arrival instructions in a typical EMS event
    - 1. Provides immediate assistance
    - 2. Complements call screening
    - 3. Provides updated information to responding unit(s)
    - 4. May be life sustaining in critical incidents
    - 5. Emotional support for caller/ bystanders/ victim
- V. Procedures
  - A. Information that should be verbally reported to medical direction
    - 1. Depends on technology used for transmission
    - 2. May vary with local protocol
    - 3. Based on patient priority
    - 4. Standard format
      - a. Efficient use of communications system
      - b. Assists medical direction

- Assures no significant information is omitted
- 5. Information
  - a. Unit identification/ provider identification
  - b. Description of scene
  - c. Patient's age, sex, and approximate weight (for drug orders)
  - d. Patient's chief complaint
  - e. Associated symptoms
  - f. Brief, pertinent history of the present illness/ injury
  - g. Pertinent past medical history, medications, and allergies
  - h. Pertinent physical exam findings
  - i. Treatment given so far
  - j. Estimated time of arrival at hospital
  - k. Other pertinent information
- B. General procedures for exchange of information
  - 1. Protect privacy of the patient
  - 2. Use proper unit numbers, hospital numbers, proper names, and titles
  - 3. Do not use slang or profanity
  - 4. Use standard formats for transmission
  - 5. Utilize the "echo" procedure when receiving directions from the dispatcher or physician orders
  - 6. Obtain confirmation that message was received
- VI. Procedure for the use of the biotelemetry equipment used locally